

**M 5.3, 67 km NNW of Ollage, Chile**

Origin Time: 2023-09-12 04:58:37 UTC (Tue 01:58:37 local)  
Location: 20.6550° S 68.4836° W Depth: 108.4 km

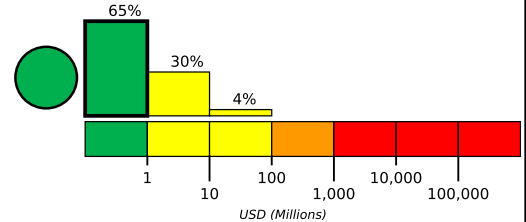
**PAGER  
Version 6**

Created: 1 day, 0 hours after earthquake

**Estimated Fatalities**

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

**Estimated Economic Losses**

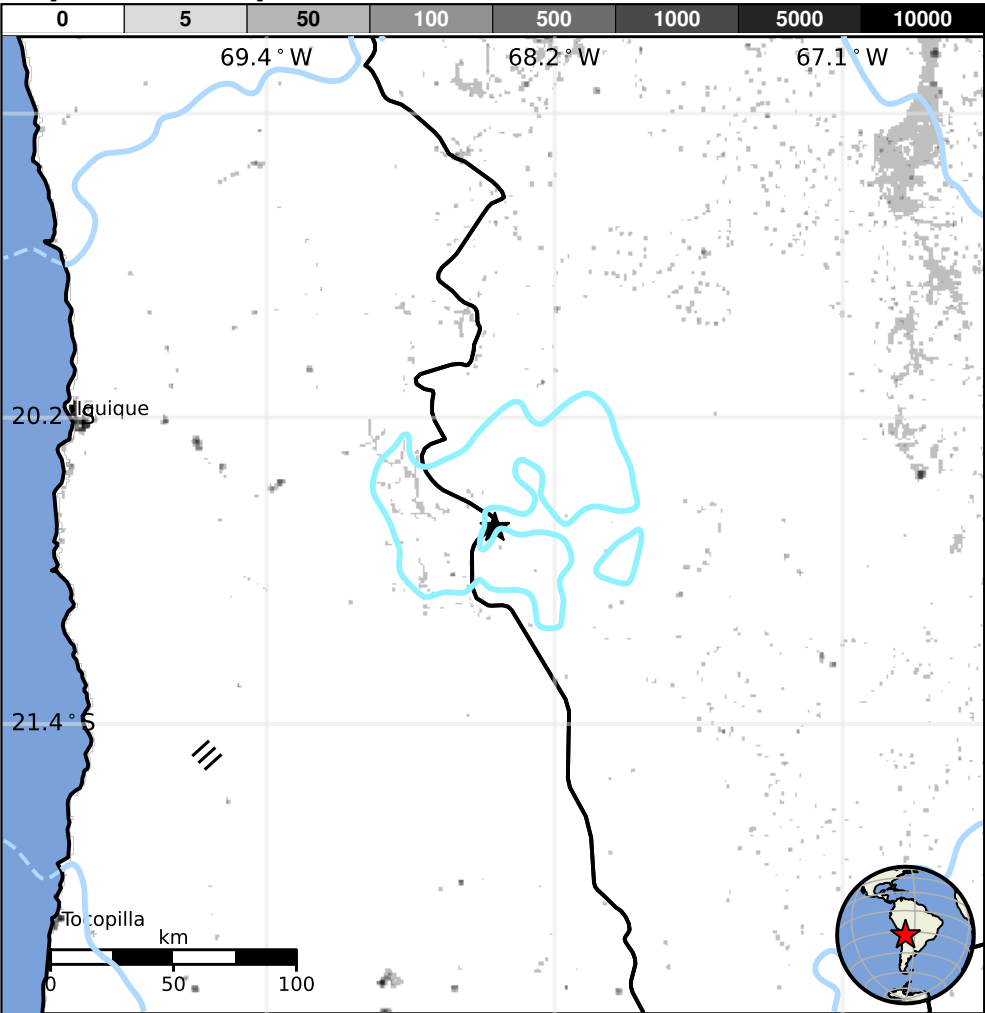


**Estimated Population Exposed to Earthquake Shaking**

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	563k	7k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

\*Estimated exposure only includes population within the map area.

**Population Exposure**



**Structures**

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are adobe block and rubble/field stone masonry construction.

**Historical Earthquakes**

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
2001-07-24	145	6.3	V(36k)	1
1987-08-13	398	6.5	VII(62k)	1
1981-06-21	202	5.7	VII(6k)	10

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

**Selected City Exposure**

MMI	City	Population
III	Iquique	227k
III	Colchani	12k
III	Uyuni	10k
III	Cruz de Machacamarca	<1k
II	Challapata	8k
II	Tocopilla	24k

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.  
<https://earthquake.usgs.gov/earthquakes/eventpage/us7000kv7t#pager>

bold cities appear on map. (k = x1000)

Event ID: us7000kv7t